

Claims

1. Anti-freeze protein which can be derived from Lichen, said protein having an apparent molecular weight of from 20 to 28 kDa and having an N-terminal amino acid sequence which shows at least 80% overlap with:
A-P-A-W-M-D-A-E-S-F-G-A-I-A-H-G-G-L
and modified versions and isoforms of this protein

2. Anti-freeze protein of claim 1 having an N-terminal amino acid sequence as follows:
A-P-A-V-V-M-G-D-A-E-S-F-G-A-I-A-H-G-G-L
and modified versions and isoforms of this protein.

3. Anti-freeze protein of claim 1 or 2, having a molecular weight of from 22 to 26 kDa.

4. Anti-freeze protein of claim 1 or 2, showing at least 90% overlap with the partial sequences of claim 1 or 2.

5. Anti-freeze protein of claim 1 or 2, showing 100% overlap with the partial sequences of claim 1 or claim 2.

6. Anti-freeze protein of claim 1, wherein the modification involves glycosylation.

7. Nucleic acid sequence encoding the anti-freeze protein of one or more of the preceding claims.

Sul
B5

004021 136228560

Sul
C2

530
1653

526
22

8. Food product comprising an anti-freeze protein according to claim 1 or 2.
9. Food product according to claim 8 being a frozen confectionery product.

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